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Itinerant workers. p. 265.
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SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6,
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SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6,
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ZELEZNICE, Prague, Vol. 4, no. 8, Aug. 1954.

SC: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6,
June 1956, Unclassified.

PANACEK, J.

A hundred years since the sale of the State Railroads. p. 97.
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SO: Monthly List of East European Accessions (EEAL) LC, Vol. 5, No. 6, June 1956 Unclassified

PANACEK, J.

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Praha, Vol. 4, No. 12, Dec. 1954

SOURCE: East European Accessions List (EEAL) Library of Congress,
Vol. 4, No. 12, December 1955

BRNO, CZECHOSLOVAKIA

Jan Jirousek's Vyrob zelenin na silnice (Production of vegetables on the road) (Development of agriculture in the Czechoslovak Republic); p. 27 (specification of location of Bratislava); note in pen.

p. 27 (Zeleniny v. l., t. . i-), V. M. -e, L. M. -e, C. -e, Iran, Czechoslovakia

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TECHNOLOGY

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PANACEK, J. Notes on a historic book; a review of Miloslav Stepan's Prehledne dejiny ceskoslovenskych zeleznic 1824-1948 (Short History of Czechoslovak Railroads, 1824-1948). p. 13.

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March 1959 Unclass.

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From the history of our railroads; our friend the telegraph. p. 192
ZELEZNICAR. Praha, Czechoslovakia. No. 7, July 1959

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Uncl.

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ZELEZNICAR. (Ministerstvo dopravy) Praha, Czechoslovakia, No. 4, Apr. 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 7, July 1959
UNCL

SOKOLOV, V.M.; BABICHEV, V.A.; PANACHIN, F.G., otvetstvennyy redaktor;
KUZNETSOVA, V.I., redaktor; BOGOOLYUBOVA, R.N., tekhnicheskiy
redaktor

[The Ivanovo-Voznesensk general strike of 1905; a collection of
documents and papers] Vseobshchaya stachka Ivanovo-Voznesenskikh
rabochikh v 1905 godu; zhurnal dokumentov i materialov. [Ivanovo]
Ivanovskoe kn-vo, 1955. 258 p.
(MLRA 9:12)
(Ivanovo--General strike, 1905)

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191T71

PANADIADI, A. D.

USSR/Hydrology - Land Improvement

Oct 51

"Improvement of Lovat Plain," A. D. Panadiadi,
Cand Agr Sci

Gidrotekh i Meliorat" Vol III, No 10, pp 58-65

Outlines plans for improving agriculture and increasing cattle stock for 600,000 hectare area, of which 192,000 hectares have to be dried, 362,000 hectares cleared of stones, and 70,000-90,000 hectares of swampy forests drained. Presents processing schemes in maps.

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"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001238920006-0

PANAMA, . . .

Dredge & Navigation Co.

"Reclamation of Canal Zone by United States Government."
A. E. Imballati, Army Corps of Engineers.

Montage List of Subs for Acquisition, Dredge & Navigation Co.

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001238920006-0"

PANADIADI, A. D.

Baraba lowland. Moskva, Gos. izd-vo geog. lit-ry, 1953. 231 p. maps. (54-20541)

DK771.B37P3

1. Baratinskaja Step.

POMUS, M. I. [reviewer]; PANADIADI, A. D. [author].

"Baraba lowland (nature, economy, and prospects for development)." A. D.
Panadiadi. Reviewed by M. I. Pomus. Izv. AN SSSR Ser. geog. no. 6:74-77 N-D
'53. (MLRa 5:12)

(Baraba steppe) (Panadiadi, A. D.)

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[Baraba lowland] Barabinskaia nizmennost'; priroda, khoziaistvo i perspektivy razvitiia. Moskva, Gos. izd-vo geogr. lit-ry, 1953. 231 p.
(MLRA 6:10)
(Barbara steppe)

OFFENGENDEN, Samuil Rafailovich, kandidat tekhnicheskikh nauk; PANADIADI,
A.D., kandidat sel'skokhozyaystvennykh nauk; TROMBACHEV, S.P., inzhener,
[deceased]; YARUSHIN, M.I., inzhener; KREMENETSKIY, N.D. kandidat
sel'skokhozyaystvennykh nauk; KAGAN, G.S., inzhener; NIKOLAYEV, I.G.,
inzhener; TRUBACHEVA, Ye.G., kul'turtekhnik; SHKLYAREVSKIY, A.I.,
redaktor; FEDOTOVA, A.F., tekhnicheskiy redaktor.

[Operation of irrigation and drainage systems] Ekspluatatsiya gidro-
meliorativnykh sistem. Pod red. S.R. Offengendena. Moskva, Gos. izd-
vo sel'khoz.lit-ry, 1956. 535 p. (MLRA 10:6)
(Irrigation) (Drainage)

OFFENGENDEN, S.R., kand.tekhn.nauk; PANADIADI, A.D., kand.sel'skokhoz.nauk;
YARUSHIN, M.I., insh. Prinimata uchastsiye TRUBACHEVA, Ye.G.,
kul'turtexhnik. ZUYEVA, K.A., red.; SMIRNOVA, Ye.A., tekhn.red.;
ZUBRILINA, Z.P., tekhn.red.

[Practical work for a course in the operation of irrigation and
drainage systems] Prakticheskie raboty po kursu ekspluatatsii
gidromeliorativnykh sistem. Moskva, Gos.izd-vo sel'khoz.lit-ry,
1959. 270 p.
(Drainage) (Irrigation)

OFFENGENDEN, S.R.; PANADIADI, A.D.; YARUSHIN, M.I.; YELIZAVETSKAYA,
G.V., red.; BALLOD, A.I., tekhn. red.

[Operation of irrigation and drainage systems] Ekspluatatsiya
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(Irrigation) (Drainage)

PANADIADI, A.D., kand. sel'khoz. nauk; VOLOVSKIY, S.P., kand.
sel'khoz. nauk; NAVROTSKIY, S.K., kand. sel'khoz. nauk;
PANADIADI, Ye.A., inzh.; SPIRIDONOV, A.L., kand. sel'-
khoz. nauk; TIMOFEEV, A.F., kand. sel'khoz. nauk;
LAPIDOVSKIY, K.I., red.

[Agricultural melioration] Sel'skokhoziaistvennaia me-
lioratsiia. Moskva, Kolos, 1965. 502 p. (MIRA 18:7)

PANADIADI, A.D., kand. sel'khoz. nauk; VOLOVSKIY, S.P., kand.
sel'khoz. nauk; NAVROTSKIY, S.K., kand. sel'khoz. nauk;
PANADIADI, Ye.A., inzh.; SPIRILONOV, A.L., kand. sel'-
khoz. nauk; TIMOFEEV, A.F., kand. sel'khoz. nauk;
LAPIDOVSKIY, K.I., red.

[Agricultural melioration] Sel'skokhoziaistvennaya me-
lioratsiya. Moskva, Kolos, 1965. 502 p. (MIRA 18:7)

PANAFIDIN, A.P.; ROZENBERG, V.A.

Toroidal magnetoanisotropic stress transducer. Priborostroenie
no.5:26 My :64. (Mira 17:6)

PANAFIDIN, K.A., kand.sel'skokhoz.nauk

Effect of chemical treatment of seed potatoes on the Colorado
beetle. Zashch. rast. ot vres. i bol. 7 no.11-50-51 N '62.
(MIA Lit.)

BONDIN, V.P.; SVECHNIKOV, I.D.; CHIGAREV, G.A.; PANAFIDIN, K.A.; MEZIN,
A.F.; KUDEL', K.A., kand.biolog.nauk (Kiyev); NOVODED, M.F.,
mladshiy nauchnyy sotrudnik (Kiyev)

Mist spraying against the Colorado beetle. Zashch.rast.ct vred.
bol. 7 no.6:50-53 Je '62. (MIR 75:12)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut Grazh-
danskogo vozdukhogo flota, Vsesoyuznyy institut zashchity rasteniy
i Ministerstvo sel'skogo khozyaystva Belorusskoy SSR (for Bondin,
Sevchnikov, Chigarev, Panafidin, Mezin). 2. Ukrainskiy institut
zashchity rasteniy (for Novoded).
(Potato beetle) (Spraying and dusting)

PANAFIDIN, K.A.; SLUTYY, M.F.; BONDIN, V.P.

Helicopter in the control of the Colorado beetle. Zashch. rast. ot
vred. i bol. 8 no.7:45 Jl 63. (MIRA 16:9)

1. Vsesoyuznyy institut zashchity rasteniy, Beregovskoye proizvod-
stvennoye upravleniye i Gosudarstvennyy nauchno-issledovatel'skiy
institut Grazhdanskogo vozdushnogo flota.

L-19425-65 EWT(m)/EPF(c) Pr-4 RM

ACCESSION NR: AR4048180

S/0081/64/000/009/P041/P041

B

SOURCE: Ref. zh. Khimiya, Abs. 9P290

AUTHOR: Cherchenko, G. V., Panafidin, V. V., Zhuvagin, V. G.

TITLE: The UzPVT ultrasound generator for determining the volume and phase relationships in gas-liquid hydrocarbon systems

CITED SOURCE: Tr. Gos. in-t po proyektir. i issled. rabotam neftedob. prom-sti
Giprovostokneft', vy* p. 6, 1963, 62-65

TOPIC TAGS: petroleum analysis, hydrocarbon system, ultrasound generator, piezo quartz transformer, blanket petroleum/UzPVT ultrasound generator

TRANSLATION: The authors describe the UzPVT ultrasound generator which makes it possible to measure the total volume and the volume of the liquid phase in hydrocarbon systems and thus, by difference, to determine the volume of the gas phase in a broad range, as well as to determine the saturation pressure of the system. The principal part of the device is a unit with a piezo-quartz transformer of high-frequency electrical impulses into ultrasound impulses. In contrast to the existing devices, the height of the fluid

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ACCESSION NR: AR4048180

level is determined accurately from the rate of transmission of the ultrasound. This device, a schematic diagram of which is given, is designed for work with stratified (blanket) petroleum. I. Bogdanov

SUB CODE: FP, EE

ENCL: 00

Card 2/2

PANAGRIYEV, V.

Irreplaceable means of communication. Grazhd.av.13 no.5:26 My.
'56. (Radio in aeronautics) (MLRA 9:9)

1. PANAGURIN, I. N.
2. USSR (600)
4. Sheep
7. Master of lamb raising. Sots. zhiv. 15, No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

PANAIOMOV, P., D-r.

Tribute to academician prof. Dr. Vladimir N. Markov. Izv.mikrob.
inst., Sofia 5:475-476 1954.
(BIOGRAPHIES,
Markov, Vladimir N.)

FEDOROVICH, I.P., et al. ... PAPERBACK, C.M.

Investigation in the field of gravitational waves. Met. 5
no. 5.54-57. May 1958. (NPA 18:6)

2. Institut problem matematicheskogo tekhnika.

FEDOROVICH, V. M., SAVchenko, V. V., TEPLOAEV, G. M., DAVYDOV, B. I. Ya.,
ZOMBER, G. G.

Studies in the field of friction materials. Report No. 4.
Forest. met. SSSR. 9165-68. 16.

U. Institut problem materialovedeniya AN UkrSSR. Institut
elektrosvarki imeni Patona AN UkrSSR.

ACC NR: AP6011240 (N) SOURCE CODE: UR/0413/66/000/006/0077/0077

INVENTOR: Fedorchenko, I. M.; Panaioti, I. I.; Derkacheva, G. M.

ORG: none

TITLE: Sintered friction material. Class 40, No. 179932 [announced by the Institute of Powder Metallurgy and Special Alloys AN UkrSSR (Institut metallokeramiki i spetssplavov AN UkrSSR)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 77

TOPIC TAGS: sintered friction material, friction material

ABSTRACT: An Author Certificate has been issued for an iron-base sintered friction material containing silica and asbestos. To increase the heat resistance of the material, the following composition (%) is suggested: aluminum, 7-9; silica, 1-3; asbestos, 1-3; phosphorus, 0.7-1; manganese, silicon, nickel, chromium, sulfur, etc., up to 2; iron, the remainder. [Translation]

[LD]

SUB CODE: 11, 20/ SUBM DATE: 04Dec63/

Card 1/1A/1C/

UDC: 669.15' 715-192' :621.762

PANALOTOV, Boris ..

Transition form the shop structure to the management and
the increased role of the foreman in industrial enterprises
Trud tseni 3 no.10:45-53 '61.

VIAKHOV, K.; MATEEV, B.; PANAIOTOV, D.

X-ray and differential diagnosis of diaphragmatic hernia. Khirurgija,
Sofia 12 no.2:115-126 1959.

(HERNIA, DIAPHRAGMATIC, diag.
x-ray & differ. diag. (Bul))

ALEKSIK, El.; PANAIKOV, G.

A spectral method for determining selenium in sulfide ores.
Izv Geol Inst BAN 11: 179-184 '62.

METANIEV, V., inzh.; PANAIOTOV, G.

Televisors "Temp" 6 and 7. Radio i televiziia 11 no.6:175-183
'62.

METANIEV, V., inzh.; PANAIOTOW, G.

The Rubin 102 TV set. Radio televiziia 11 no.9:271-275 '62.

PANAIOTOV, I

"Geographic calendar" (.,20). BGD MARTINA
(Bulgarsko Geografsko Druzhestvo) Sofiya Vol. 1 No. 1 1954

SO: East European Accessions List Vol. 3 No. A 1 1954

PANAIOTOV, I.

Karaiyanov, I. Method for improving the polishing of furniture w/ to plane surfaces.
p. 20.
LEKA P. MISHLENOK, Sofiya, Vol. 4, no. 2, 1955.

SO: Monthly List of East European Accessions, (SEAL), Lj, Vol. 4, no. 10, Oct. 1955,
Uncl.

PANAIOTOV, I.

PANAIOTOV, I. Development of our domestic commerce. p.1.

Vol. 6, No. 6, 1956, GEOGRAFILA, Sofiya, Bulgaria.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 10,
Oct. 1956.

PANAIOTOV, I.

"Concerning the reaction of N-bromosuccinimide with some arylacetic acids."

p.183 (Izvestiia, Vol. 5, 1957, Sofia, Bulgaria)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 8, August 1958

PANAIOTOV, I.

Automatic repeated switching (APV) of 110-kw electric lines. p. 2.
(Elektroenergiia, Vol. 8, No. 1, Jan. 1957, Sofia, Bulgaria)

SO: Monthly List of East European Accessions (EEAL) LC, Vol 6, No. 8, Aug 1957. Uncl

PANAIOTOV, I.

Corrosion of the locomotive boiler and method for its prevention. p.36.
(TRANSPORTNO DELO, Vol. 9, no. 1, 1957, Sofia, Bulgaria.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 12, December 1957 Uncl.

PANAIOTOV, I.

"On the aldehydes in rose oil."

IZVESTIIA, Sofia, Bulgaria, Vol. 6, 1958.

Monthly List of East European Accessions Index (EEAI), The Library of Congress, Volume 8, No. 8, August 1959.

Unclassified

PANAIOTOV, I.

"On the sugar content of juniper berries."

IZVESTIYA, Sofia, Bulgaria, Vol. 6, 1958.

Monthly List of East European Accessions Index (EEAI), The Library of Congress, Volume 8, No. 8, August 1959.

Unclassified

PANAYOTOV, I. [Panaiotov, I.]

Production of polyesteramides with aromatic nuclei through
interphase polycondensation. Doklady RAN 16 no.1:39-41 '63.

1. Submitted by Academician D. Ivanov.

L 12281-63EPR/EWP(j)/EPP(c)/BDS Ps-4/Pt-4/Pc-4 RM/WW
5/081/63/000/005/038/075AUTHOR: Ivanov, D., Vasilyev, G., Panaiatov, I. and Borisov, G. 68TITLE: Synthesis with lithium organic compounds, obtained by replacement
of the labile hydrogen atomPERIODICAL: Referativnyy zhurnal, Khimiya, no. 5, 1963, 261, abstract 52h268
(Godishnik Sofiisk. un-ta. Pismata. fak., 1957-1958 (1959),
v. 52, no. 3, 1-54)TEXT: In the course of action of RLi (R=alkyl or aryl) on $\text{ArCH}_2\text{COONa}$ (Ia-
c here and hereafter aAr = C_6H_5 , bAr = $\alpha\text{-C}_{10}\text{H}_7$, cAr = $\beta\text{-C}_{10}\text{H}_7$) ArCHLiCOONa (II),
is formed which is converted after action of CO_2 and acidification into ArCH
 $(\text{COOH})_2$ (III). By the interaction of II with $(\text{C}_6\text{H}_5)_2\text{CO}$ (IV) there $(\text{C}_6\text{H}_5)_2\text{C}(\text{OH})$
 CHArCOOH (V) is obtained. The use of lithium alkyls in the place of ArLi leads
to a decrease in yield of III and IV. The reaction of RLi with Ia in the absence
of substituents in the ortho position may proceed by a different course, with
formation of $\text{C}_6\text{H}_5\text{CH}_2\text{COR}$ (VI), the interaction of which with II leads to $\text{C}_6\text{H}_5\text{CH}_2$
 $\text{CR}(\text{OH})\text{CH}(\text{C}_6\text{H}_5)\text{COOH}$ (VIII), by the action of RLi an ArCH_2CN (VIII) ArCHLiCN (IX)

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is obtained which changes into $\text{ArCH}(\text{CN})\text{COOH}$ (X). In reaction of II with IV ($(\text{C}_6\text{H}_5)_2\text{C}(\text{OH})\text{CHAR}\text{CN}$ (XI) is formed. The interaction of IIa with $\text{Ar}'\text{CH}_2\text{Cl}$ with subsequent hydrolysis leads to $\text{C}_6\text{H}_5\text{CH}_2\text{CHAR'.COOH}$ (XII). In the reaction of IIa with unsaturated ketones of the type $\text{Ar}'\text{CH} = \text{CHCOOC}_6\text{H}_5$ (XIII) and $\text{C}_6\text{H}_5\text{CH} - \text{CHOCH} + \text{CHC}_6\text{H}_5$ (XIV) the addition takes place in 1,4 position and after hydrolysis $\text{C}_6\text{H}_5\text{CH}(\text{COOH})\text{CHAR'}\text{CH}_2\text{COOC}_6\text{H}_5$ (XV) and $\text{C}_6\text{H}_5\text{CH}(\text{COOH})\text{CH}(\text{C}_6\text{H}_5)\text{CH}_2\text{COCH} = \text{CHC}_6\text{H}_5$ (XVI) are obtained respectively. The addition of the Schiff's bases of $\text{Ar''N} = \text{CHAR'}$ to IIa leads to $\text{C}_6\text{H}_5\text{CH}(\text{COOH})\text{CHAR''NHAr''}$ (XVII). In the action of I_2 or N-bromosuccinimide on II meso-forms of $\text{ArCH}(\text{COOH})\text{CH}(\text{Ar})\text{COOH}$ are formed. The reactivity of II and IX is comparable to similar Grignard compounds. From 1.2 g of Li, 13.7 g of *n*-bromotoluene (XVIII) 12.7 g of I_2 and 14.6 g of IV in 100 ml of ether Va is obtained, the yield for which is 67%, m.p. 187 - 188°C (from alcohol). Va is also obtained with the use of other RLi (indicated are starting bromide and yield of Va in %): $\text{A-C}_6\text{H}_5\text{Br}$ (XIX), 65-70 (with 25% excess of Li and III the yield is 71%); $1,3,5-(\text{CH}_3)_3\text{C}_6\text{H}_2\text{Br}$, 72; $1,3-(\text{CH}_3)_2\text{C}_6\text{H}_2\text{Br}_2$, 46, 33. From Ib $\text{C}_6\text{H}_5\text{Br}$, Li and IV, Vb are obtained with 57% yield, m.p. 159-160°C (from alcohol). In the synthesis of Va using RLi maximum yields are observed if R- is a primary radical. Below are given starting halides, solvent and yield of Va in %: n-

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C₄H₉Cl, ether, 50-52; H-CH₂H₇Cl, pentane ether (PE), 45-48; C₂H₅CHClCH₃, PE, 18; (CH₃)₂CCl (PE) 12-14; iso-C₃H₇Cl, PE, 23-25; C₆H₁₁Br, PE, 20. Below the data gives RLi, the ratio RLi:I, the yield of corresponding VII in %, m.p. in °C (temp. of reaction from -10 to 0°): C₃H₇Li, 2:1, 45, 160-161 (from aqueous alcohol); iso-C₃H₇Li, 2:1, 31, 139-137 (from aqueous alcohol); iso-C₃H₇Li, 3:1, 28-, n-C₄H₉, 1:1, 42, 145-146 (from toluene); n-C₄H₉, 1.5:1, 55, ---; C₂H₅CHLiCH₃, 3:1, 39, 137-139 (from aqueous alcohol). Below are given starting RLi, yields of Vb and Vc in %: C₂H₅Li, 45.3, 37; iso-C₃H₇Li, 15.6, 8.3%; n-C₃H₇Li, 40.7, 31.5; iso-C₅H₁₁Li, 10, 27.6. From 1.4 g of Ia, 20.7 g of III and 15.8 g of Iz in 120 ml of ether IIIa was obtained with 42% yield, m.p. 152-153° C (decompose; from water); the yield of IIIv ~20%, m.p. 155-156° C. From 1.47 g of Ia, 16.5 g of Iz in 80 ml of ether VIIa was obtained with 39.41% yield, m.p. 56-57.5° C (from alcohol). Also obtained with other VI's (indicated are R and yields in %): p-tolyl, 25-33, m-tolyl, 25-33; m-tolyl, 29-32; n-C₆H₄N(CH₃)₂, 55. Below are giving starting bromide, yield of VII in %, m.p. in °C: n-XVIII, 44.4, 169-170 (from alcohol); meta-XVIII, 40-43, 149-151; β-XIII, 53, 172-180; p-CH₃OC₆H₄Br.

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38, 176-177 (from alcohol). Below are given starting bromide, yields of IIIb and IIIc in %: C₆H₅Br, 38, 17.7; o-XVIII, 42.2, 42.8; meta-XVIII, 35, 19.6; p-XVIII, 29.5, 21.7; XIX, 37.4, 26.1; p-(CH₃)₂NC₆H₄Br, 29.1, 18.5 (after separation of IIIb, m.p. 147-148° C, VIIb was isolated, yield 12.1%, m.p. 105-106° C (from alcohol); oxime, m.p. 138-139° C; Vc, m.p. 189-190° C (from alcohol). To a solution of 0.01 or 0.5 moles of RLi in 25-50 ml ether 0.01-0.05 moles of VIII in 5-40 ml of ether are added and the mixture is heated. After 3 hours IV is added to the formed IX and it is heated again for 3-4 hours. Under the reaction conditions water is split from the produced XIa and (C₆H₅)₂C = C(C₆H₅)CN is obtained with 30% yield, m.p. 165-168° C (from alcohol); XIb, yield 21.2% m.p. 179-180° C. Below are given RLi, yield of Xa and Xc in %, CH₃Li, 38, ---; H-C₆H₅Li, 40, 37.9; H-C₆H₉, 47, 54.5; C₆H₅Li, 41, 50; o-CH₃C₆H₄Li, 45, 23.7; o-C₁₀H₇Li, 44, 41.2. From 0.4 g of Li, 2.4 g of H-C₆H₉Cl, 3.95 g of Ia and 5.2 g of III (Ar' - C₆H₅) in 120 ml of ether XV (Ar' - C₆H₅) is obtained, with 38% yield, m.p. 257-259° C. Also obtained are other XV's (given is Ar'), yield in %, m.p. in °C): p-CH₃OC₆H₄, 29, 220-223; p-ClC₆H₄, 51, 242-243 (from glacial CH₃COOH). From 0.35 g of Li, 5.13 g of XVIII, 3.95 g of Ia and 5.85 g of XIV

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Synthesis of lithium organic

5/081/63/000/005/038/075

in 100 ml of ether **XVI** is obtained with 45% yield, m.p. 254-255° C (from alcohol). To **IIIa** (from 0.4 g of Li, 4.3 g of **XVII**, 3.95 g of In in 70 ml ether) are added 6.35 g of $C_6H_5CH_2Cl$ and the yield of **XII** ($Ar = C_6H_5$) is 77%, m.p. 88-89° C (from chloroform). Also obtained are other **VII**'s (indicated is Ar, yield in % and m.p. in °C): o- ClC_6H_4 , 73, 121-122 (from ether-peter. ether); p- ClC_6H_4 , 70, 140-140.5 (from aqueous alcohol); meta- NC_6H_4 , 82, 128-129 (from water). To a solution of **II** in ether 1 equiv. Schiff's base is added, it is heated for 6 hours, decomposed with ice and NH_4Cl , the Mn-salt **XVII** is acidified with CH_3COOH and **XVII** is separated (shown are Ar , Ar' , yield in %, m.p. in °C): C_6H_5 , C_6H_5 , 79, 137-138 (from aqueous alcohol); C_6H_5 , p- $CH_3C_6H_4$, 60, 178-180 (from aqueous alcohol), C_6H_5 , β -naphthyl, 70, 136-157 (purified through chlorhydrate); p- $CH_3OC_6H_4$, C_6H_5 , 78, 141-143 (from aqueous alcohol). Ya. Kondratenko.

[Abstractor's note: Complete translation]

Card 5/5

PANALOTOV, Iv.; SHOPOV, Iv.

A method of preparing porous materials from polyvinyl chloride.
Izv Inst org khim 1:5-12 '64

PANAIOTOV, Iv.; SHOPOV, Iv.

Preparation of polyamides from furan-2,5-dicarboxylic acid,
1,6-hexamethylenediamine, and L-caprolactam. Izv Inst org khim
1:121-125 '64

Polymerization of allyl β -furylcarboxylate by initiation. Atanas Trifunov and Ivan M. Panayotov (Bulgarian Acad. Sci., Sofia). *Makromol. Chem.*, 1959, 10, 487-92 (1959) (in German).—Allyl β -furylacrylate (I) was polymerized by heating it with BaO (II) under N₂ in sealed ampuls. Prolonged heating above 100° only disintegrated the monomer, but at 200° about 15% C₆H₆-sol., and at 220°, about 85% insol. polymer was formed. Since, at 220°, the degree of polymer formation was almost independent of the concn. of II, the reaction could not have been initiated by II. An intermediate (III) is formed; this is the true initiator, since I could be polymerized by it at 150°. III, whose structure was not detd., was prep'd. by heating I with a large amt. of II (180 mg./ml.) at 150° under N₂. III was crystd. from MeOH at -75°. III probably contained a C—O—OH group, as shown by polarography and by infrared spectra. A spectrum of the polymer showed that little or no furan ring was present; polymerization is mostly through the double bond in the acid portion of I and, less so, through the allyl double bond. The spectrum of the polymer formed without II was very similar to that of the polymer formed with II.

Jerry March—

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PANAIOTOV, Ivan M.

Silicones. Priroda Bulg 12 no. 4:61-64 Jl-Ag '63.

PANAIOTOV, K.

Chemical treatment of water in locomotive boilers and scavenging locomotive boilers.
p.20.
(TRANSPORTNO DELO Vol. 7, no. 3, 1955, Sofiya)

SO: Monthly List of East European Accessions, (ERAL), LC, Vol. 4, No. 11.
Nov. 1955, Uncl.

PANAIOTOV, KH.

Method for determining the value of apartments and stores in apartment-house buildings.

p. 1 (STROITELSTVO) Vol. 4, no. 6, 1957,
Sofia, Bulgaria

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3,
March 1958

PANAIOTOV, L.A.

Determining radial velocities of stars with a direct-vision lens
prism. Izv.Glav.astron.obser. 19 no.5:87-99 '54. (MLRA 8:?)
(Stars--Motion in line of sight)

PANAIOTOV, L.A.

Determining the radial velocities of stars from short-focus double astrographs by using an object lens. Astron. zhur. 32 no.4:305-308
J1-Ag'55.
(MLRA 8:10)

1. Glavnaya astronomicheskaya observatoriya Akademii nauk SSSR
(Stars--Motion in line of sight)

PANAIOTOV, L.A.

Dissipation of B stars perpendicularly to the galactic plane.
Astron.tsirk. no.171:19-20 J1 '56. (MLRA 9:12)

1. Glavnaya Astronomicheskaya observatoriya Akademii nauk SSSR.
(Stars--Proper motion)

PANAIOTOV, L.A.

Photographic observations of Arend-Roland's comet on the double
short-focus astrograph in Pulkovo. Astron.tsir. no.180:17
My '57. (MIRA 13:4)
(Comets--1956)

SOV/169-60-1-997

Translation from: Referativnyy zhurnal, Geofizika, 1960, Nr 1, p 133 (USSR)

AUTHOR: Panaiotov, L.A.

TITLE: The Spectrum of the Second Artificial Satellite of Earth

PERIODICAL: Astron. tsirkulyar, 1958, May 26, Nr 192, pp 3 - 4

ABSTRACT: The spectrum was obtained on March 30 and April 1, 1958, by using a photocamera with moving film. The direction of dispersion coincided with the direction of movement of the film. The photographing was performed at the instant when the satellite was near the horizontal section of its visible trajectory. The spectrum obtained on April 1, was compared with the spectrum of α Aur recorded right after the passage of the satellite. The maximum of density in the spectrum of α Aur is at $\lambda = 4,800 \text{ \AA}$ without a sharp red edge, in the spectrum of the satellite at $\lambda = 5,900 \text{ \AA}$ with a sharp edge at the side of the red portion. It is possible that systematic spectral investigations of the bright satellites will discover new possibilities in studying the high layers of the atmosphere.

Card 1/1

3(1)

AUTHOR: Panaiotov, L.A. SOV/33-35-2-10/21

TITLE: Some Photometric and Spectral Characteristics of the Comet
1956 h (Nekotoryye fotometricheskiye i spektral'nyye
kharakteristiki komety 1956 h)

PERIODICAL: Astronomicheskiy zhurnal, 1958, Vol 35, Nr 2, pp 257-260(USSR)

ABSTRACT: With the aid of photographs of O.N.Chudovicheva the author
investigated the distribution of the brightness in the head
and tail of the comet 1956 h. Some bands of emission of the
head of the comet are identified on spectra made with an
objective prism. The author compared the intensities of the
two brightest bands and found the distribution of density in
the spectrum of the ordinary tail and that of the anomalous
tail. An isophotometer of N.I. Mikhel'son was used.
There is 1 table and 10 figures.

ASSOCIATION: Glavnaya astronomicheskaya observatoriya Akademii nauk SSSR
(Main Astronomical Observatory of the AS USSR)

SUBMITTED: July 18, 1957

Card 1/1

PANAIOTOV, L.A.

Photography of small satellites by cameras with moving films.
Astron. tsir. no.189:4 P '58.
'Artificial satellites' (Astronomical photography) (MIRA 11:8)

3.21

69376

SOV/35-59-10-8245

Translation from: Referativnyy zhurnal. Astronomiya i Geodeziya, 1959, Nr 10, p 86
(USSR)

AUTHOR: Panaiotov, L.A.

TITLE: The First Results of Photographing Artificial Earth Satellites With a Camera
With a Movable Film

PERIODICAL: Astron. tsirkulyar, 1958, May 26, Nr 192, pp 2-3

ABSTRACT: In order to check the efficiency of the method of photographing artificial earth satellites with a camera with a movable film, a model of the apparatus was built in Pulkovo composed of a "Uran-2" lens, combined with an aerial camera of an old design. From January 18 to April 4, 1958, 10 photographs of the Sputnik II were obtained. The results obtained by the new apparatus were compared with the results obtained by a standard camera. It was found that on a movable film the track left by the Sputnik was denser and still visible when on the film taken by the standard camera it was absent. By this method it is possible to photograph weak satellites up to 6° . The moments and positions determined by the new method are not less accurate than those obtained by the standard camera.

Card 1/1

N.P. Kukarkina

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Translation from: Referativnyj zhurnal. Astronomiya i Geodeziya, 1958, Nr 10 p 60
(USSR) 200/35-50-10-6230

AUTHOR: Panaiotov, L.A.

TITLE: The Spectrum of the Second Artificial Earth Satellite

PERIODICAL: Astron. tsirkulyar, 1958, May 25, Nr 192, pp 3-4

ABSTRACT: The spectrum of the Sputnik II was recorded on March 30 and April - by the camera with a movable film, using a lens prism which was placed in front of the lens of the camera in such a way that the direction of dispersion coincided with the direction of the movement of the film. The dispersion at $H \lambda$ equals $\sim 500 \text{ A/mm}$. The spectrum recorded on April 1 was compared with the spectrum of Aur. It was found that the distributions of density in these two spectra are widely different. The maximum density in the spectrum of the satellite is at 5900

N.P.K. ✓

Card 1/1

(AIVISIY CV. L. A.)

PHASE I BOOK EXPLOITATION

SOV/5570

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Akademija nauk SSSR. Astronomicheckij sovet

Byulleten' stantsiy opticheskogo nablyudenija iskuststvennykh sputnikov Zemli.
no. 1 (11) (Academy of Sciences of the USSR. Astronomical Council. Bulletin
of the Stations for Optical Observation of Artificial Earth Satellites. No. 1
(11)) Moscow, 1960. 22 p. 500 copies printed.

Sponsoring Agency: Astronomicheckij sovet Akademii nauk SSSR.
Resp. Ed.: Ye. Z. Gindin; Ed.: D. Ye. Shchegolev; Secretary: O.A. Severnaya.

PURPOSE: This bulletin is intended for scientists and engineers concerned with
optical tracking of artificial satellites.

COVERAGE: This bulletin contains short articles on optical equipment, techniques,
and results of observations of artificial earth satellites. Also covered are
the precision of satellite photography and the equations of motion of satellites.
No personalities are mentioned. There are no references.

Card 1/4

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|---|----------|
| Academy of Sciences (Cont.) | 807/5570 |
| Merkushhev, V.A. [Novosibirsk Artificial Satellite Observation Station]. Protective Cap for the Mirror of the AT-1 Theodolite | 8 |
| Firago, B.A., and D. Ye. Shechegolev. [Main Astronomical Observatory, Pulkovo]. On the Precision of Standard Processing of Photographs of Artificial Earth Satellites | 9 |
| Kaplan, S.A., and A.I. Klimovskaya [L'vov Artificial Satellite Observation Station]. On the Equation of Motion of an Artificial Earth Satellite in Horizontal Coordinates | 10 |
| Panniotov, L.A. [Main Astronomical Observatory]. Observations of Artificial Earth Satellites in the Polish People's Republic | 12 |
| Results of Photographic Observations of Artificial Earth Satellites: a) Bronkalla, V. Berlin-Babelsberg Observatory b) Chuprina, A.I., and L.A. Klepikova [Staff Members of the Astronomical Council, AS USSR]. Odessa Astronomical Observatory | 14 |
| Card 3/4 | 18 |

89330

S/033/61/038/001/013/019

E032/E314

3,1230 (1062,1166,1168)

AUTHOR: Panaiotov, L.A.

TITLE: The Design and Preliminary Results of Tests of a
Moving Film Camera for the Photography of Faint
Artificial Satellites

PERIODICAL: Astronomicheskiy zhurnal, 1961, Vol. 30. No. 1,
pp. 145 - 156

TEXT: In a previous paper (Ref. 1) the present author described a method in which faint artificial satellites are photographed on a film moving in the direction of motion of the satellite with a velocity roughly equal to that of the latter. The first model of this camera was built at the end of 1957 and it was tested during 1958 on the second and third artificial Earth satellites. These tests showed that the method was satisfactory and the preliminary results obtained were reported by the present author in Ref. 2. The moving film camera is based on the standard aerial camera AFA-MK (AFA-MK), in which the optics and the mechanical and electrical components have been modified and various new

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S/033/61/038/001/013/019
E032/E314

The Design and Preliminary Results of Tests of a Moving Film Camera for the Photography of Faint Artificial Satellites

components have been added. The camera incorporates a standard objective ($D = 100$ mm, $F/2.5$) which is analogous to those used in **NAFA-3C-25c** (NAFA-3S-25s) cameras. The objective is held at the end of a tube and focusing is achieved by rotation of the objective about the optical axis. The mechanism responsible for the motion of the film (wide range of velocities) consists of a DC motor with a suitable velocity regulation. Velocities between 0.6 and 7.5 mm/sec, which correspond to angular velocities of a satellite of $0^\circ.13 - 1^\circ.7\theta$ per sec were obtained by suitable gearing. The film comes to rest in a time less than 0.5 sec after the motor supplies are switched off. The camera is mounted on a heavy support and can be rotated about three axes so that the satellite can easily be followed. The mechanical design was the responsibility of D.S. Usamov. The camera can be used to determine positions and times to an accuracy of $0^\circ.01$ and

Card 2/4

89330

S/033/61/038/001/013/019
E032/E314

The Design and Preliminary Results of Tests of a Moving Film Camera for the Photography of Faint Artificial Satellites

D.Z. Gingin for "organisational work".

There are 8 figures, 2 tables and 4 Soviet references.

ASSOCIATION: Glavnaya astronomicheskaya observatoriya
Akademii nauk SSSR (Main
Astronomical Observatory, AS USSR)

SUBMITTED: August 9, 1960

Card 4/4

L 32709-35 EEO-2/EWT(d)/FHD/FSR(h)/FSS-2/EWT(1)/Ara(+1)-1/PER(1)-2/PER(1)-3
EWA(s)/EST(1) 3/2016/03/000/033/002

ACCESSION NR: ATR-00000000000000000000000000000000

DATE: 3/2016/03/000/033/002

AUTHORS: Panaiotov, L. A.; Synchenko, T. Ye.

101

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B71

TITLE: Results of photographic observations of artificial earth satellites

SOURCE: AN SSSR. Astronomicheskiy sovet. Byulleten' stantsiy opticheskogo
nablyudeniya iskusstvennykh sputnikov Zemli, no. 35, 1963, 20-25

TOPIC TAGS: artificial earth satellite, satellite tracking/ UIM 21 microscope

ABSTRACT: The methods used and results obtained in photographing Soviet artificial earth satellites (ISZ) in 1961 and 1962 were reviewed. A photographic station was established at Pulkovo in 1961 and was equipped with a motion film camera having a "Uran 12" objective. The camera was mounted on a triaxial azimuth stand so that one axis was free to follow the orbit of the satellite. The camera mount permitted a wide range of observation and flexibility of tracking speed. An electronic film exposure time register was integrated with the quartz timer system of the observatory. In all, 30 photographs of two satellites (1960 S₂ and 1960 S₃) were made, of which 23 were of a quality sufficiently high for measuring purposes. The authors describe the calibration, testing, and functional operation of the camera equipment used in the tests. Measurements and photoprocessing were carried out

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ACCESSION NR: AT5003594

with the use of a UIM-21 microscope and were done according to methods set forth by L. A. Paniatov (AZh, XXXIII, vyp. I, 145, 1961). A discussion of the manner of measuring time and determining coordinates is given. Angular coordinates in two orthogonal directions were found to be within error limits on the order of $\pm 3\text{-}4$ seconds. A table showing the observed angles and corresponding position calculations for the processed photographs is included. Orig. art. has: 2 figures and 1 table.

ASSOCIATION: Glavnaya astronomicheskaya observatoriya, AN SSSR (Main Astronomical Observatory, AN SSSR)

SUBMITTED: 03Jan63

ECL: 00

SUB CODE: AA, ES

D REF. NO.: 002

OTHER: 000

Card 2/2

PANAIOTOU N.

TECHNOLOGY

Periodical: PASTORALIZA.SUN. Vol. 8, no. 7, July 1958.

PANAIOTOU, I. by first innovation. p. 5.

Monthly List of East European Accession (EEA), LC., Vol. 3, no. 2,
February 1959, Unclass.

PANAIOTOV, N., inzh; KUKOV, G., inzh.; DIMITROVA, Em., inzh.

The Sestrimo Cascade. Elektroenergiia 15 no.1:3-8 Ja'64

PANATOV, N.G. (g.Angarsk)

New technology of operating stations and approach tracks.
Zhel.dor.transp. 44 no.9:90-92 S '62. (MIRA 15:9)

1. Nachal'nik stantsii Kitoy-Kombinatskaya Irkutskogo otdeleniya
Vostochno-Sibirskoy dorogi.
(Railroads—Management) (Railroads, Industrial)

ANGELOV, S., PANAIOTOV, P.

Investigations of the opsonic and bacteriolytic effect of the swine erysipelas antiserum. Izv. mikrob. Inst., Sofia., Vol. 1, 1950.
p. 45-60

NAI

CLMI. 19, 5, Nov., 1950

PANAIOTOV, P., RACHEV, L.

Effect in vitro of certain sulfonamide and antibiotic preparations on
the intestinal flora. Izv. mikrob. Inst., Sofia., Vol. 1, 1950.
P. 75-88

1. (Docent L. Rachev--Director of the University Children's Clinic,
Sofia; Dr. P. Panayotov--Senior Assistant at the Microbiological
Institute of the Bulgarian Academy of Sciences).

CLML 19, 5, Nov., 1950

YANCHEV, Ya., PANAYOTOV, P.

Tuberculosis and infection with tuberculosis of *Chairina moschata*.
Izv. mikrob., Inst., Sofia., Vol. 1, 1950. p. 129-37

1. (Dr. P. Panayotov—Senior Assistant at the Microbiological Institute
of the Bulgarian Academy of Sciences; Dr. Ya. Yanchev—Assistant at
the Zoological Gardens of the Bulgarian Academy of Sciences).

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Pectin preparation bistrin produced at the Microbiologic Institute
of the Bulgarian Academy of Sciences. Izv. mikrob. inst., Sofia
2:79-82 1951. (CLM 21:3)

1. Professor Doctor, Academician for Angelov; Doctor for Panayotov.

ANGELOV, S., PANAIOTOV, P., GRIGOROV, I., NASHKOV, D.

Experiences with production of streptomycin. Izv. mikrob. inst..
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1. Professor Doctor, Academician for Angelov; Doctor for Panayotov
and Nashkov.

LIMABREV, S., PANAIOTOV, P.

Therapy of urogenital tuberculosis with streptomycin. Izv. mikrob.
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1. Doctor Lambrev of the Second Surgical Clinic of Vulko Chervenkov
Medical Academy; Doctor Panaytov of the Microbiological Institute
of the Bulgarian Academy of Sciences.

PANAIOTOV, P.

Effect in vitro of bearberry leaves extract, comparing with certain antibiotics and sulphonamides, on microorganisms found in the urinary tract. Izv. mikrob. inst., Sofia 2:111-116. (CLML 21:3)

1. Doctor.

PANAIOTOV, P.

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ANGELOV, St., akad. prof.; CHILOV, K., prof. d-r.; KUIUMOZHIEV, Il., d-r.;
PANAICHOV, P., d-r; ZOGRAFSKI, B., d-r.

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"The Problem of Producing F. actin From Aspergillus niger." p. 57 (PRIPDA, Vol. 2,
No. 4, July/Aug., 1953, Sofiya.)

SO: Monthly List of Russian Accessions, Library of Congress, _____
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March 1954, Uncl.
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Uncl.

PANATOV, P.

Panatov, P. Assistant to the Director of Operations for Counterintelligence

Deputy Director of the Central Intelligence Agency
Directorate of Operations

DCI: Director of Central Intelligence Agency
CIA: Central Intelligence Agency

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agglutinogen form., eff. of neurolytic serum (Bul))

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(VIRUSES,
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freeze-drying, appar. (Bul))

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(IMMUNOLOGY,
same)
(COMMUNICABLE DISEASES,
same)

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238920006-0

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238920006-0"

PANAIOTOV, P.

"Development of electrification in the Soviet Union."

p.7 (Tekhnika, Vol. 6, no. 8, 1957, Sofia, Bulgaria)

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